

## RAW SEQUENCE LISTING

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Application Serial Number: 10578, 013A  
Source: IFWP  
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IFWP

## RAW SEQUENCE LISTING

DATE: 05/15/2006

PATENT APPLICATION: US/10/578,013

TIME: 10:07:26

Input Set : A:\12920.0013.00PC00.ST25.txt

Output Set: N:\CRF4\05152006\J578013.raw

3 <110> APPLICANT: Garry, Jr., Robert F.  
 4 Wilson, Russell B.  
 6 <120> TITLE OF INVENTION: METHOD OF PREVENTING VIRUS:CELL FUSION BY INHIBITING THE  
 FUNCTION  
 7 OF THE FUSION INITIATION REGION IN RNA VIRUSES HAVING CLASS I  
 8 MEMBRANE FUSOGENIC ENVELOPE PROTEINS  
 10 <130> FILE REFERENCE: 12920.0013.00PC00  
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/578,013  
 C--> 12 <141> CURRENT FILING DATE: 2006-05-03  
 12 <150> PRIOR APPLICATION NUMBER: US 60/517,181  
 13 <151> PRIOR FILING DATE: 2003-11-04  
 15 <160> NUMBER OF SEQ ID NOS: 31  
 17 <170> SOFTWARE: PatentIn version 3.3  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 39  
 21 <212> TYPE: PRT  
 22 <213> ORGANISM: Artificial Sequence  
 24 <220> FEATURE:  
 25 <223> OTHER INFORMATION: Synthetic peptide  
 27 <400> SEQUENCE: 1  
 29 Leu Ile Met Lys Asn His Leu Arg Asp Ile Met Gly Ile Pro Tyr Cys  
 30 1 5 10 15  
 33 Asn Tyr Ser Arg Tyr Trp Tyr Leu Asn His Thr Ser Thr Gly Lys Thr  
 34 20 25 30  
 37 Leu Pro Arg Cys Trp Leu Ile  
 38 35  
 41 <210> SEQ ID NO: 2  
 42 <211> LENGTH: 100  
 43 <212> TYPE: PRT  
 44 <213> ORGANISM: Artificial Sequence  
 46 <220> FEATURE:  
 47 <223> OTHER INFORMATION: Synthetic peptide  
 49 <400> SEQUENCE: 2  
 51 Leu Ile Arg Ala Ala Glu Ile Arg Ala Ser Ala Asn Leu Ala Ala Thr  
 52 1 5 10 15  
 55 Lys Met Ser Glu Cys Val Leu Gly Gln Ser Lys Arg Val Asp Phe Cys  
 56 20 25 30  
 59 Gly Lys Gly Tyr His Leu Met Ser Phe Pro Gln Ala Ala Pro His Gly  
 60 35 40 45  
 63 Val Val Phe Leu His Val Thr Tyr Val Pro Ser Gln Glu Arg Asn Phe  
 64 50 55 60  
 67 Thr Thr Ala Pro Ala Ile Cys His Glu Gly Lys Ala Tyr Phe Pro Arg  
 68 65 70 75 80  
 71 Glu Gly Val Phe Val Phe Asn Gly Thr Ser Trp Phe Ile Thr Gln Arg

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72                               85                               90                               95
75 Asn Phe Phe Ser
76                               100
79 <210> SEQ ID NO: 3
80 <211> LENGTH: 32
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82 <213> ORGANISM: Artificial Sequence
84 <220> FEATURE:
85 <223> OTHER INFORMATION: Synthetic peptide
87 <400> SEQUENCE: 3
89 Leu Arg Thr Phe Ser Ile Leu Asn Arg Lys Ala Ile Asp Phe Leu Leu
90 1                               5                               10                               15
93 Gln Arg Trp Gly Gly Thr Cys His Ile Leu Gly Pro Asp Cys Cys Ile
94                               20                               25                               30
97 <210> SEQ ID NO: 4
98 <211> LENGTH: 43
99 <212> TYPE: PRT
100 <213> ORGANISM: Artificial Sequence
102 <220> FEATURE:
103 <223> OTHER INFORMATION: Synthetic peptide
105 <400> SEQUENCE: 4
107 Ile Gln Asp Leu Glu Lys Tyr Val Glu Asp Thr Lys Ile Asp Leu Trp
108 1                               5                               10                               15
111 Ser Tyr Asn Ala Glu Leu Leu Val Ala Leu Glu Asn Gln His Thr Ile
112                               20                               25                               30
115 Asp Leu Thr Asp Ser Glu Met Asn Lys Leu Phe
116                               35                               40
119 <210> SEQ ID NO: 5
120 <211> LENGTH: 17
121 <212> TYPE: PRT
122 <213> ORGANISM: Artificial Sequence
124 <220> FEATURE:
125 <223> OTHER INFORMATION: Synthetic peptide
127 <400> SEQUENCE: 5
129 Leu Gly Leu Lys Leu Leu Arg Tyr Tyr Thr Glu Ile Leu Ser Leu Phe
130 1                               5                               10                               15
133 Gly
137 <210> SEQ ID NO: 6
138 <211> LENGTH: 94
139 <212> TYPE: PRT
140 <213> ORGANISM: Artificial Sequence
142 <220> FEATURE:
143 <223> OTHER INFORMATION: Synthetic peptide
145 <400> SEQUENCE: 6
147 Trp Tyr Thr Thr Val Pro Lys Tyr Val Ala Thr Gln Gly Tyr Leu Ile
148 1                               5                               10                               15
151 Ser Asn Phe Asp Glu Ser Ser Cys Thr Phe Met Pro Glu Gly Thr Val
152                               20                               25                               30
155 Cys Ser Gln Asn Ala Leu Tyr Pro Met Ser Pro Leu Leu Gln Glu Cys

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156          35          40          45
159 Leu Arg Gly Ser Thr Lys Ser Cys Ala Arg Thr Leu Val Ser Gly Ser
160          50          55          60
163 Phe Gly Asn Arg Phe Ile Leu Ser Gln Gly Asn Leu Ile Ala Asn Cys
164 65          70          75          80
167 Ala Ser Ile Leu Cys Lys Cys Tyr Thr Thr Gly Thr Ile Ile
168          85          90
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172 <211> LENGTH: 57
173 <212> TYPE: PRT
174 <213> ORGANISM: Artificial Sequence
176 <220> FEATURE:
177 <223> OTHER INFORMATION: Synthetic peptide
179 <400> SEQUENCE: 7
181 Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln Gln
182 1          5          10          15
185 Leu Leu Gly Ile Trp Gly Cys Ser Gly Lys Leu Ile Cys Thr Thr Ala
186          20          25          30
189 Val Pro Trp Asn Ala Ser Trp Ser Asn Lys Ser Leu Glu Gln Ile Trp
190          35          40          45
193 Asn His Thr Thr Trp Met Glu Trp Asp
194          50          55
197 <210> SEQ ID NO: 8
198 <211> LENGTH: 9
199 <212> TYPE: PRT
200 <213> ORGANISM: Artificial Sequence
202 <220> FEATURE:
203 <223> OTHER INFORMATION: Synthetic peptide
205 <400> SEQUENCE: 8
207 Ile Leu Asn Arg Lys Ala Ile Asp Phe
208 1          5
211 <210> SEQ ID NO: 9
212 <211> LENGTH: 8
213 <212> TYPE: PRT
214 <213> ORGANISM: Artificial Sequence
216 <220> FEATURE:
217 <223> OTHER INFORMATION: Synthetic peptide
219 <400> SEQUENCE: 9
221 Cys His Ile Leu Gly Pro Asp Cys
222 1          5
225 <210> SEQ ID NO: 10
226 <211> LENGTH: 19
227 <212> TYPE: PRT
228 <213> ORGANISM: Artificial Sequence
230 <220> FEATURE:
231 <223> OTHER INFORMATION: Synthetic peptide
233 <400> SEQUENCE: 10
235 Phe Leu Leu Gln Arg Trp Gly Gly Thr Cys His Ile Leu Gly Pro Asp
236 1          5          10          15

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239 Cys Cys Ile  
 243 <210> SEQ ID NO: 11  
 244 <211> LENGTH: 9  
 245 <212> TYPE: PRT  
 246 <213> ORGANISM: Artificial Sequence  
 248 <220> FEATURE:  
 249 <223> OTHER INFORMATION: Synthetic peptide  
 251 <400> SEQUENCE: 11  
 253 Leu Lys Leu Leu Arg Tyr Tyr Thr Glu  
 254 1 5  
 257 <210> SEQ ID NO: 12  
 258 <211> LENGTH: 10  
 259 <212> TYPE: PRT  
 260 <213> ORGANISM: Artificial Sequence  
 262 <220> FEATURE:  
 263 <223> OTHER INFORMATION: Synthetic peptide  
 265 <400> SEQUENCE: 12  
 267 Cys Thr Phe Met Pro Glu Gly Thr Val Cys  
 268 1 5 10  
 271 <210> SEQ ID NO: 13  
 272 <211> LENGTH: 19  
 273 <212> TYPE: PRT  
 274 <213> ORGANISM: Artificial Sequence  
 276 <220> FEATURE:  
 277 <223> OTHER INFORMATION: Synthetic peptide  
 279 <400> SEQUENCE: 13  
 281 Trp Tyr Thr Thr Val Pro Lys Tyr Val Ala Thr Gln Gly Tyr Leu Ile  
 282 1 5 10 15  
 285 Ser Asn Phe  
 289 <210> SEQ ID NO: 14  
 290 <211> LENGTH: 9  
 291 <212> TYPE: PRT  
 292 <213> ORGANISM: Artificial Sequence  
 294 <220> FEATURE:  
 295 <223> OTHER INFORMATION: Synthetic peptide  
 297 <400> SEQUENCE: 14  
 299 Cys Leu Arg Gly Ser Thr Lys Ser Cys  
 300 1 5  
 303 <210> SEQ ID NO: 15  
 304 <211> LENGTH: 36  
 305 <212> TYPE: PRT  
 306 <213> ORGANISM: Artificial Sequence  
 308 <220> FEATURE:  
 309 <223> OTHER INFORMATION: Synthetic peptide  
 311 <400> SEQUENCE: 15  
 313 Thr Leu Val Ser Gly Ser Phe Gly Asn Arg Phe Ile Leu Ser Gln Gly  
 314 1 5 10 15  
 317 Asn Leu Ile Ala Asn Cys Ala Ser Ile Leu Cys Lys Cys Tyr Thr Thr  
 318 20 25 30

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321 Gly Thr Ile Ile
322      35
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326 <211> LENGTH: 234
327 <212> TYPE: PRT
328 <213> ORGANISM: LASSA VIRUS
330 <400> SEQUENCE: 16
332 Leu Leu Gly Thr Phe Thr Trp Thr Leu Ser Asp Ser Glu Gly Asn Glu
333 1      5      10      15
336 Thr Pro Gly Gly Tyr Cys Leu Thr Arg Trp Met Leu Ile Glu Ala Glu
337      20      25      30
340 Leu Lys Cys Phe Gly Asn Thr Ala Val Ala Lys Cys Asn Glu Lys His
341      35      40      45
344 Asp Glu Glu Phe Cys Asp Met Leu Arg Leu Phe Asp Phe Asn Lys Gln
345      50      55      60
348 Ala Ile Arg Arg Leu Lys Thr Glu Ala Gln Met Ser Ile Gln Leu Ile
349 65      70      75      80
352 Asn Lys Ala Val Asn Ala Leu Ile Asn Asp Gln Leu Ile Met Lys Asn
353      85      90      95
356 His Leu Arg Asp Ile Met Gly Ile Pro Tyr Cys Asn Tyr Ser Arg Tyr
357      100     105     110
360 Trp Tyr Leu Asn His Thr Ser Thr Gly Lys Thr Ser Leu Pro Arg Cys
361      115     120     125
364 Trp Leu Ile Ser Asn Gly Ser Tyr Leu Asn Glu Thr Lys Phe Ser Asp
365      130     135     140
368 Asp Ile Glu Gln Gln Ala Asp Asn Met Ile Thr Glu Met Leu Gln Lys
369 145      150     155     160
372 Glu Tyr Ile Asp Arg Gln Gly Lys Thr Pro Leu Gly Leu Val Asp Leu
373      165     170     175
376 Phe Val Phe Ser Thr Ser Phe Tyr Leu Ile Ser Ile Phe Leu His Leu
377      180     185     190
380 Val Lys Ile Pro Thr His Arg His Ile Val Gly Lys Pro Cys Pro Lys
381      195     200     205
384 Pro His Arg Leu Asn His Met Gly Ile Cys Ser Cys Gly Leu Tyr Lys
385      210     215     220
388 Gln Pro Gly Val Pro Val Arg Trp Lys Arg
389 225      230
392 <210> SEQ ID NO: 17
393 <211> LENGTH: 388
394 <212> TYPE: PRT
395 <213> ORGANISM: SARS VIRUS
397 <400> SEQUENCE: 17
399 Trp Thr Phe Gly Ala Gly Ala Ala Leu Gln Ile Pro Phe Ala Met Gln
400 1      5      10      15
403 Met Ala Tyr Arg Phe Asn Gly Ile Gly Val Thr Gln Asn Val Leu Tyr
404      20      25      30
407 Glu Asn Gln Lys Gln Ile Ala Asn Gln Phe Asn Lys Ala Ile Ser Gln
408      35      40      45
411 Ile Gln Glu Ser Leu Thr Thr Thr Ser Thr Ala Leu Gly Lys Leu Gln

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VERIFICATION SUMMARY

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Input Set : A:\12920.0013.00PC00.ST25.txt

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date